

Figure A-402. McDonnell Douglas DC-8-72F, ACN/PCN Curves

ETL 1110-3-394
27 Sep 91

Aircraft Manufacturer McDonnell Douglas

Aircraft Engine Manufacturer CFM International (CFM 56-2-C1)

No. of Engines 4 Engine Rating 22,000 lb

Min. T/O Wt. 209.9 k-lb * Min. T/O Dist. @ Min. T/O Wt. †

* Min. T/O Dist. @ Min. T/O Wt. With Abort Dist. †

Max. T/O Wt. Peace-Time 355.0 k-lb Max. T/O Wt. War-Time 355.0 k-lb

* Min. T/O Dist. @ Max. T/O Wt. War-Time 10,000 ft

* Min. T/O Dist. @ Max. T/O Wt. War-Time With Abort Dist. †

Min. Ldg. Wt. 245.6 k-lb Max. Ldg. Wt. 258.0 k-lb

* Min. Ldg. Dist. @ Min. Ldg. Wt. 6,150 ft

* Min. Ldg. Dist. @ Max. Ldg. Wt. 6,500 ft

* These distances are at 59°F, at sea level, with zero runway gradient, and on a clean dry runway surface.

ACN

Weight	Rigid Pavement Subgrades				Flexible Pavement Subgrades			
	High A	Medium B	Low C	Ultra Low D	High A	Medium B	Low C	Very Low D
246	32	37	43	48	33	37	44	54
258	34	40	46	52	35	39	46	58
355	50	60	68	77	52	59	70	86

Figure A-403. McDonnell Douglas DC-8-73

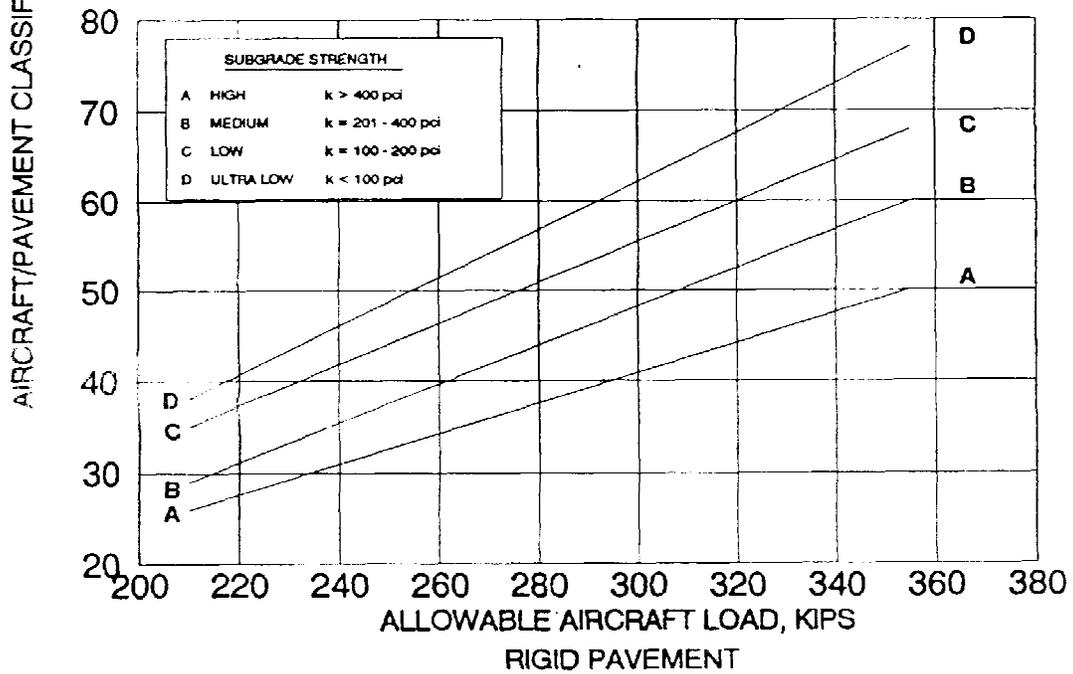
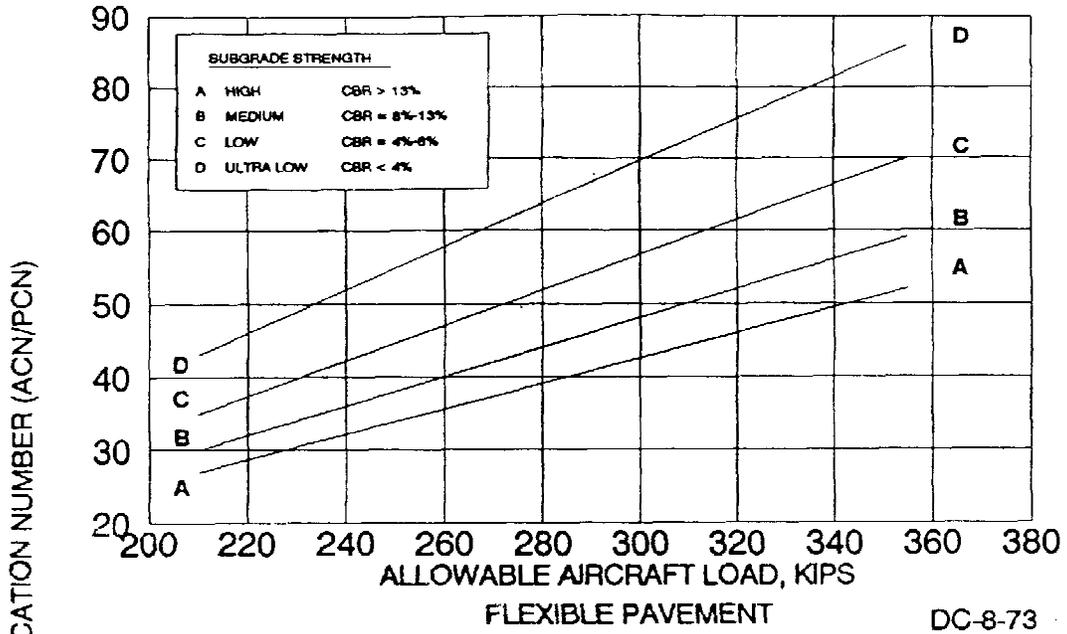


Figure A-404. McDonnell Douglas DC-8-73, ACN/PCN Curves

ETL 1110-3-394
27 Sep 91

Aircraft Manufacturer McDonnell Douglas

Aircraft Engine Manufacturer CFM International (CFM 56-2-C1)

No. of Engines 4 Engine Rating 22,000 lb

Min. T/O Wt. 192.9 k-lb * Min. T/O Dist. @ Min. T/O Wt. †

* Min. T/O Dist. @ Min. T/O Wt. With Abort Dist. †

Max. T/O Wt. Peace-Time 355.0 k-lb Max. T/O Wt. War-Time 355.0 k-lb

* Min. T/O Dist. @ Max. T/O Wt. War-Time 10,000 ft

* Min. T/O Dist. @ Max. T/O Wt. War-Time With Abort Dist. †

Min. Ldg. Wt. 275.0 k-lb Max. Ldg. Wt. 275.0 k-lb

* Min. Ldg. Dist. @ Min. Ldg. Wt. 6,900 ft

* Min. Ldg. Dist. @ Max. Ldg. Wt. 6,900 ft

* These distances are at 59°F, at sea level, with zero runway gradient, and on a clean dry runway surface.

ACN

Weight	Rigid Pavement Subgrades				Flexible Pavement Subgrades			
	High A	Medium B	Low C	Ultra Low D	High A	Medium B	Low C	Very Low D
275	36	43	50	56	38	43	51	63
355	50	60	68	77	52	59	70	86

Figure A-405. McDonnell Douglas DC-8-73F

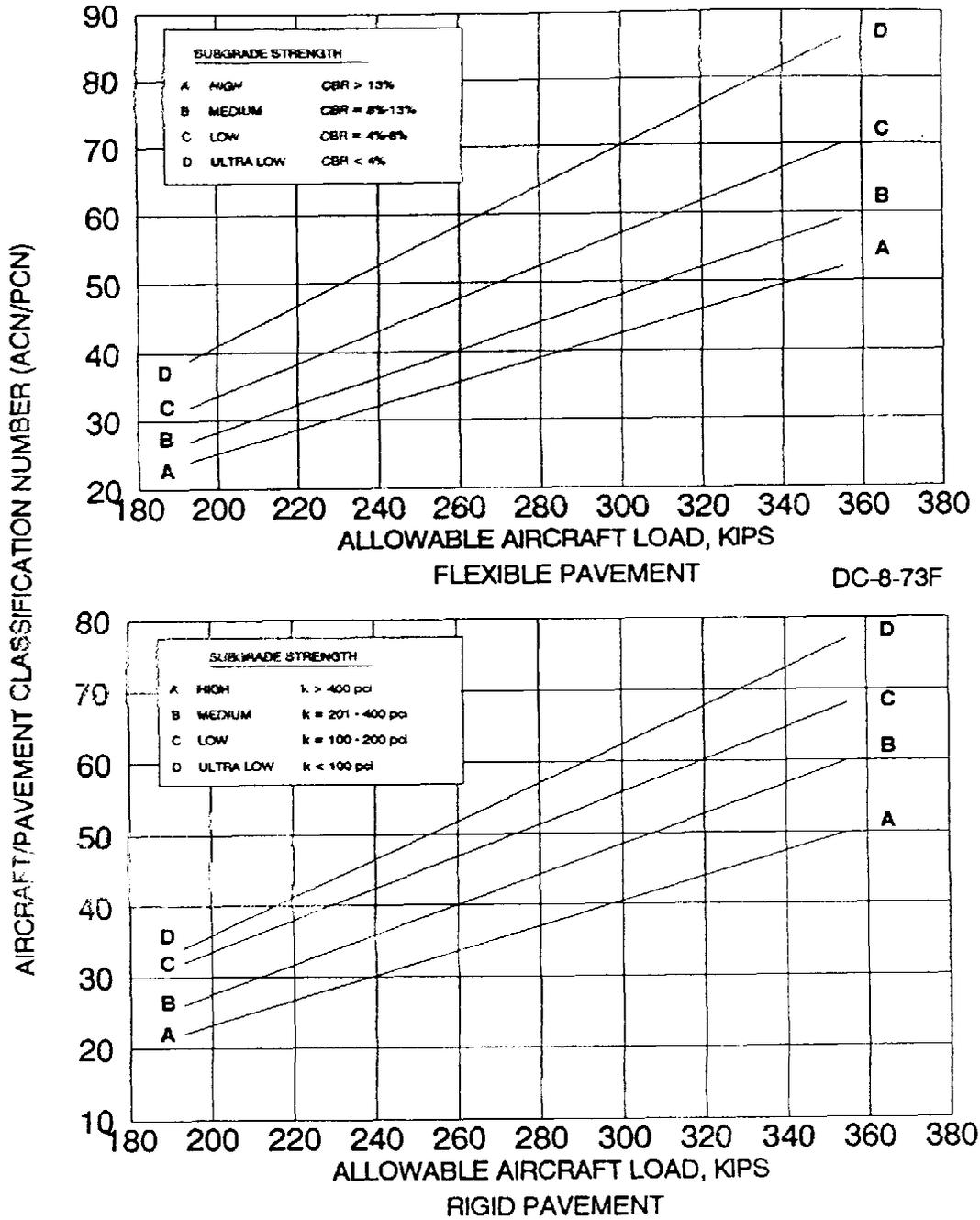


Figure A-406. McDonnell Douglas DC-8-73F, ACN/PCN Curves

Aircraft Manufacturer McDonnell Douglas

Aircraft Engine Manufacturer Pratt and Whitney (JT8D-1)

No. of Engines 2 Engine Rating 14,000 lb

Min. T/O Wt. 55.8 k-lb * Min. T/O Dist. @ Min. T/O Wt. †

* Min. T/O Dist. @ Min. T/O Wt. With Abort Dist. †

Max. T/O Wt. Peace-Time 90.7 k-lb Max. T/O Wt. War-Time 90.7 k-lb

* Min. T/O Dist. @ Max. T/O Wt. War-Time 6,500 ft

* Min. T/O Dist. @ Max. T/O Wt. War-Time With Abort Dist. †

Min. Ldg. Wt. 76.2 k-lb Max. Ldg. Wt. 81.7 k-lb

* Min. Ldg. Dist. @ Min. Ldg. Wt. 4,800 ft

* Min. Ldg. Dist. @ Max. Ldg. Wt. 5,000 ft

* These distances are at 59°F, at sea level, with zero runway gradient, and on a clean dry runway surface.

ACN

Weight	Rigid Pavement Subgrades				Flexible Pavement Subgrades			
	High A	Medium B	Low C	Ultra Low D	High A	Medium B	Low C	Very Low D
76	18	20	21	22	16	18	20	23
82	20	22	23	24	18	20	23	25
91	23	25	26	28	21	23	26	29

Figure A-407. McDonnell Douglas DC-9-15

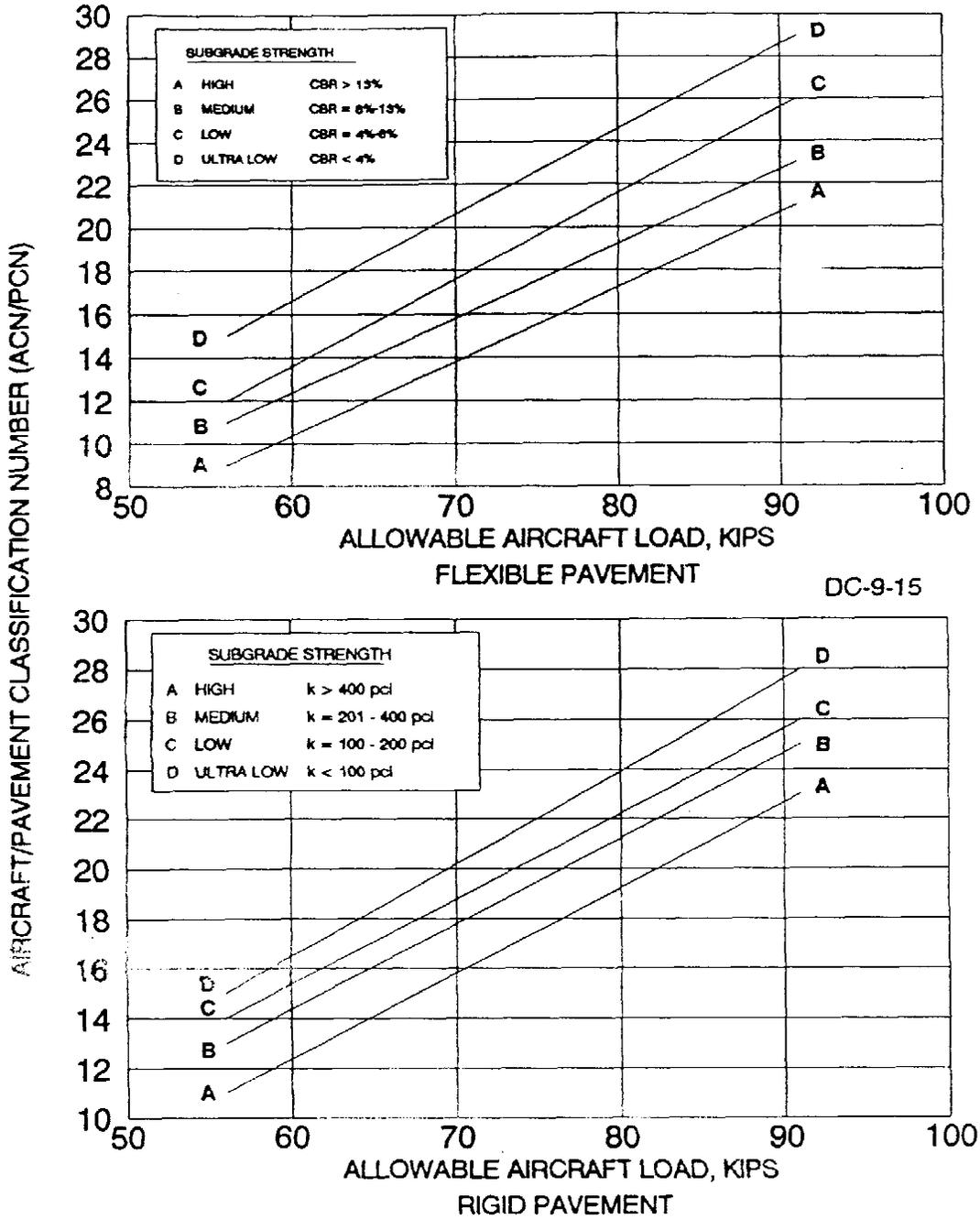


Figure A-408. McDonnell Douglas DC-9-15, ACN/PCN Curves

Aircraft Manufacturer McDonnell Douglas

Aircraft Engine Manufacturer Pratt and Whitney (JT8D-1)

No. of Engines 2 Engine Rating 14,000 lb

Min. T/O Wt. 59.9 k-lb * Min. T/O Dist. @ Min. T/O Wt. †

* Min. T/O Dist. @ Min. T/O Wt. With Abort Dist. †

Max. T/O Wt. Peace-Time 90.7 k-lb Max. T/O Wt. War-Time 90.7 k-lb

* Min. T/O Dist. @ Max. T/O Wt. War-Time 6,500 ft

* Min. T/O Dist. @ Max. T/O Wt. War-Time With Abort Dist. †

Min. Ldg. Wt. 76.2 k-lb Max. Ldg. Wt. 81.7 k-lb

* Min. Ldg. Dist. @ Min. Ldg. Wt. 4,800 ft

* Min. Ldg. Dist. @ Max. Ldg. Wt. 5,000 ft

* These distances are at 59°F, at sea level, with zero runway gradient, and on a clean dry runway surface.

ACN

Weight	Rigid Pavement Subgrades				Flexible Pavement Subgrades			
	High	Medium	Low	Ultra	High	Medium	Low	Very
	A	B	C	D	A	B	C	D
76	18	20	21	22	16	18	20	23
82	20	22	23	24	18	20	23	25
91	23	25	26	28	21	23	26	29

Figure A-409. McDonnell Douglas DC-9-15F

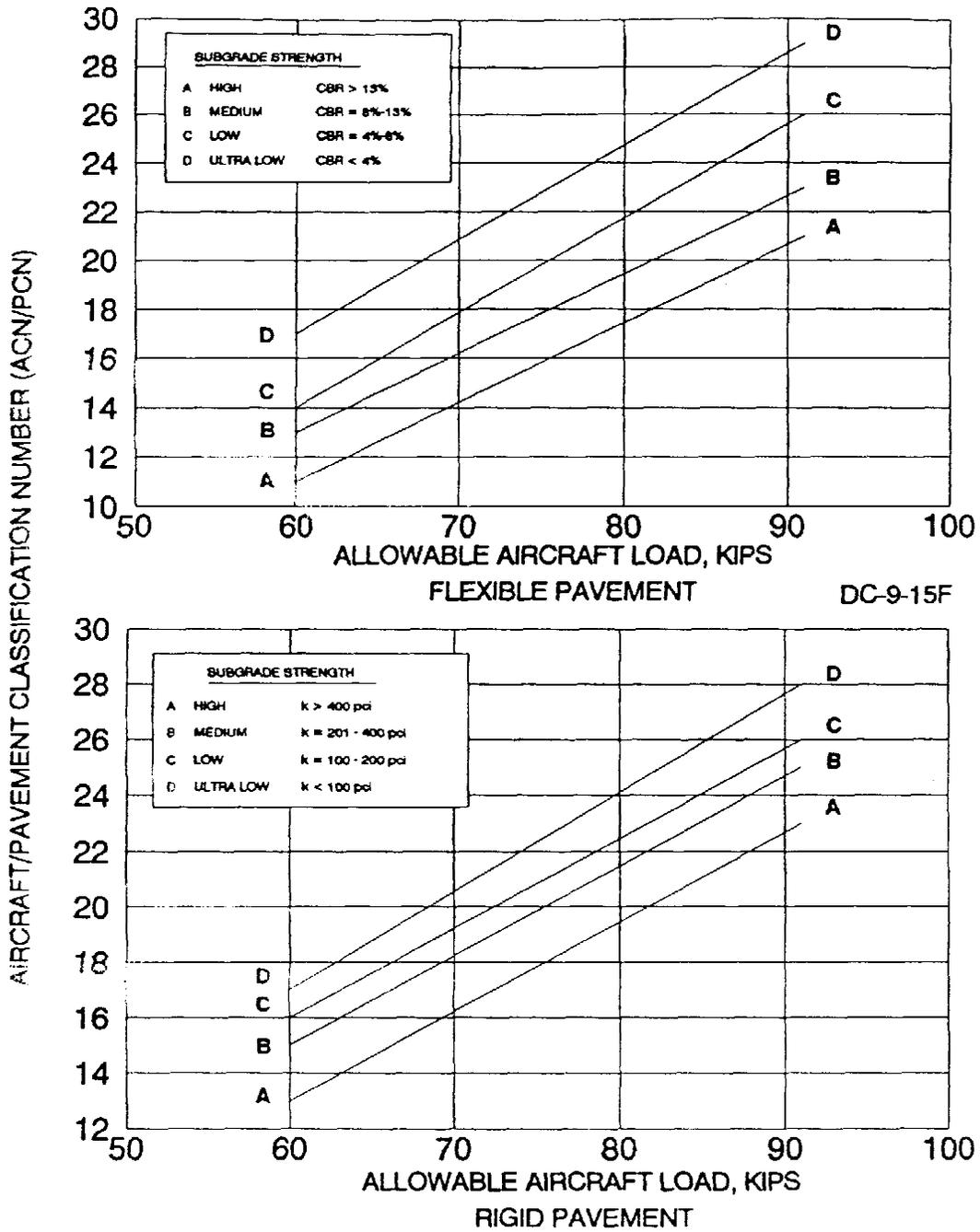


Figure A-410. McDonnell Douglas DC-9-15F, ACN/PCN Curves

Aircraft Manufacturer McDonnell Douglas

Aircraft Engine Manufacturer Pratt and Whitney (JT8D-11)

no. of Engines 2 Engine Rating 15,000 lb

Min. T/O Wt. 59.3 k-lb * Min. T/O Dist. @ Min. T/O Wt. †

* Min. T/O Dist. @ Min. T/O Wt. With Abort Dist. †

Max. T/O Wt. Peace-Time 98.0 k-lb Max. T/O Wt. War-Time 98.0 k-lb

* Min. T/O Dist. @ Max. T/O Wt. War-Time 5,500 ft

* Min. T/O Dist. @ Max. T/O Wt. War-Time With Abort Dist. †

Min. Ldg. Wt. 86.2 k-lb Max. Ldg. Wt. 95.3 k-lb

* Min. Ldg. Dist. @ Min. Ldg. Wt. 4,100 ft

* Min. Ldg. Dist. @ Max. Ldg. Wt. 4,500 ft

* These distances are at 59°F, at sea level, with zero runway gradient, and on a clean dry runway surface.

Weight	Rigid Pavement Subgrades				Flexible Pavement Subgrades			
	High	Medium	Low	Ultra	High	Medium	Low	Very
	A	B	C	Low D	A	B	C	Low D
86	22	23	24	25	19	21	24	26
95	25	27	28	29	22	24	27	30
98	26	28	29	30	23	25	28	31

Figure A-411. McDonnell Douglas DC-9-21

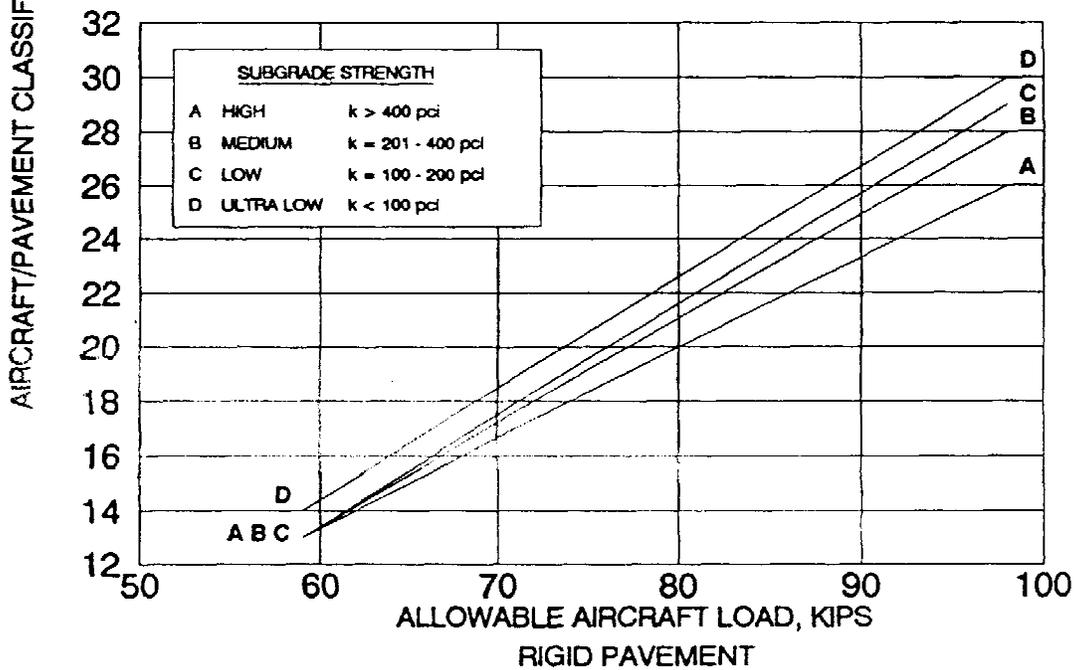
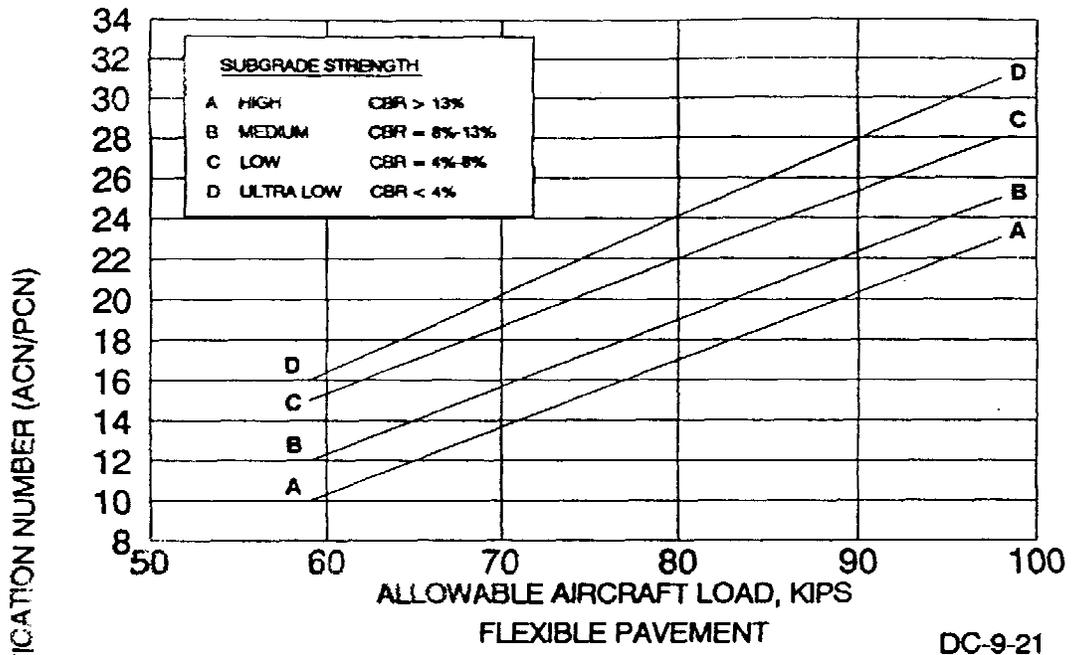


Figure A-412. McDonnell Douglas DC-9-21, ACN/PCN Curves

Aircraft Manufacturer McDonnell Douglas

Aircraft Engine Manufacturer Pratt and Whitney (JT8D-7)

No. of Engines 2 Engine Rating 14,000 lb

Min. T/O Wt. 63.5 k-lb * Min. T/O Dist. @ Min. T/O Wt. †

* Min. T/O Dist. @ Min. T/O Wt. With Abort Dist. †

Max. T/O Wt. Peace-Time 108.0 k-lb Max. T/O Wt. War-Time 108.0 k-lb

* Min. T/O Dist. @ Max. T/O Wt. War-Time 7,600 ft

* Min. T/O Dist. @ Max. T/O Wt. War-Time With Abort Dist. †

Min. Ldg. Wt. 89.2 k-lb Max. Ldg. Wt. 99.0 k-lb

* Min. Ldg. Dist. @ Min. Ldg. Wt. 4,300 ft

* Min. Ldg. Dist. @ Max. Ldg. Wt. 4,700 ft

* These distances are at 59°F, at sea level, with zero runway gradient, and on a clean dry runway surface.

Weight	Rigid Pavement Subgrades				Flexible Pavement Subgrades			
	High	Medium	Low	Ultra	High	Medium	Low	Very
	A	B	C	Low D	A	B	C	Low D
89	23	25	26	27	21	22	24	27
99	26	28	30	31	24	25	28	31
108	29	31	33	34	26	28	31	34

Figure A-413. McDonnell Douglas DC-9-32

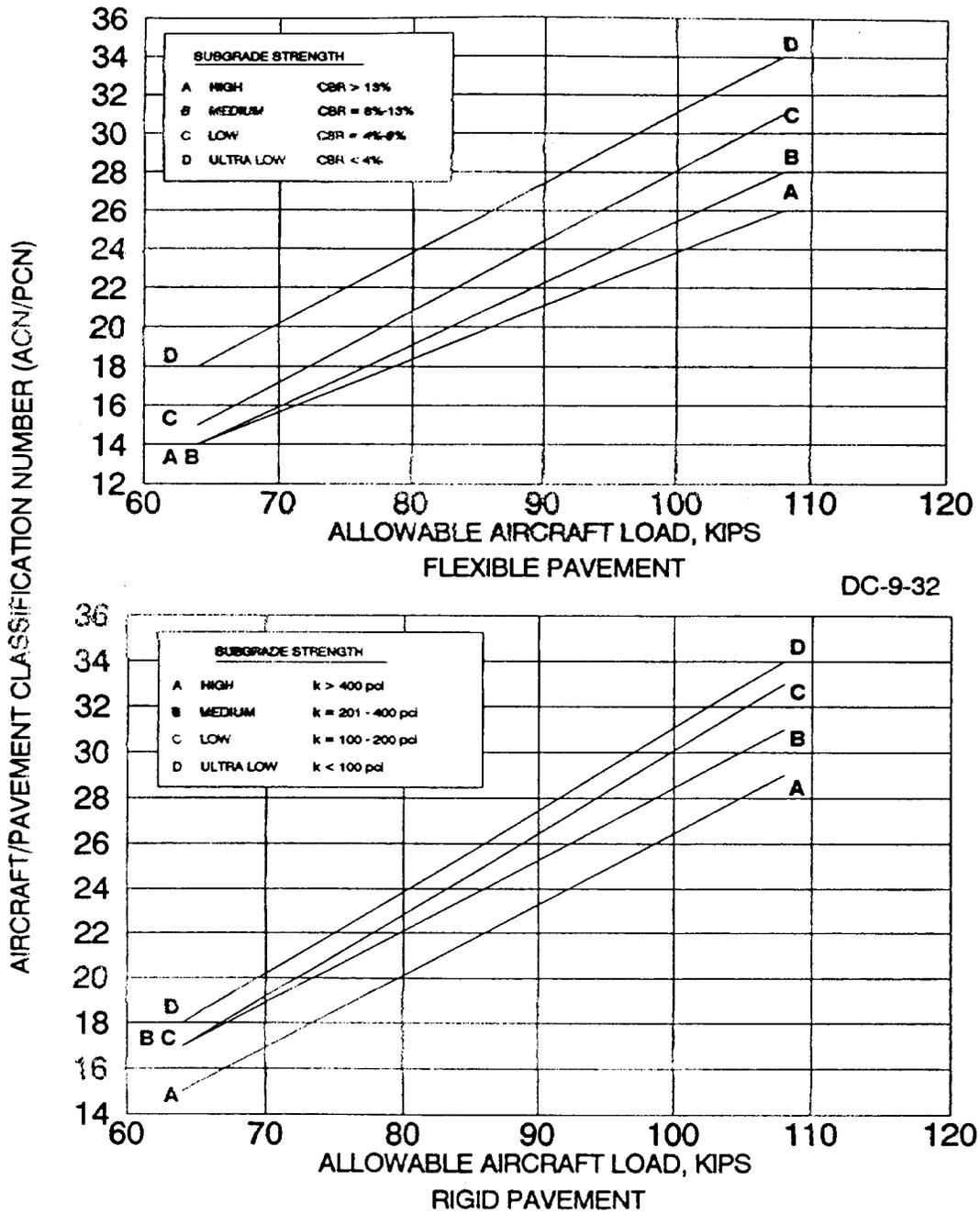


Figure A-414. McDonnell Douglas DC-9-32, ACN/PCN Curves

Aircraft Manufacturer McDonnell Douglas

Aircraft Engine Manufacturer Pratt and Whitney (JT8D-7)

No. of Engines 2 Engine Rating 14,000 lb

Min. T/O Wt. 63.1 k-lb * Min. T/O Dist. @ Min. T/O Wt. †

* Min. T/O Dist. @ Min. T/O Wt. With Abort Dist. †

Max. T/O Wt. Peace-Time 108.0 k-lb Max. T/O Wt. War-Time 108.0 k-lb

* Min. T/O Dist. @ Max. T/O Wt. War-Time 7,600 ft

* Min. T/O Dist. @ Max. T/O Wt. War-Time With Abort Dist. †

Min. Ldg. Wt. 92.2 k-lb Max. Ldg. Wt. 99.0 k-lb

* Min. Ldg. Dist. @ Min. Ldg. Wt. 4,400 ft

* Min. Ldg. Dist. @ Max. Ldg. Wt. 4,700 ft

* These distances are at 59°F, at sea level, with zero runway gradient, and on a clean dry runway surface.

Weight	Rigid Pavement Subgrades				Flexible Pavement Subgrades			
	High	Medium	Low	Ultra	High	Medium	Low	Very
	A	B	C	Low D	A	B	C	Low D
92	24	26	27	28	22	23	25	28
99	26	28	30	31	24	25	28	31
108	29	31	33	34	26	28	31	34

Figure A-415. McDonnell Douglas DC-9-33F

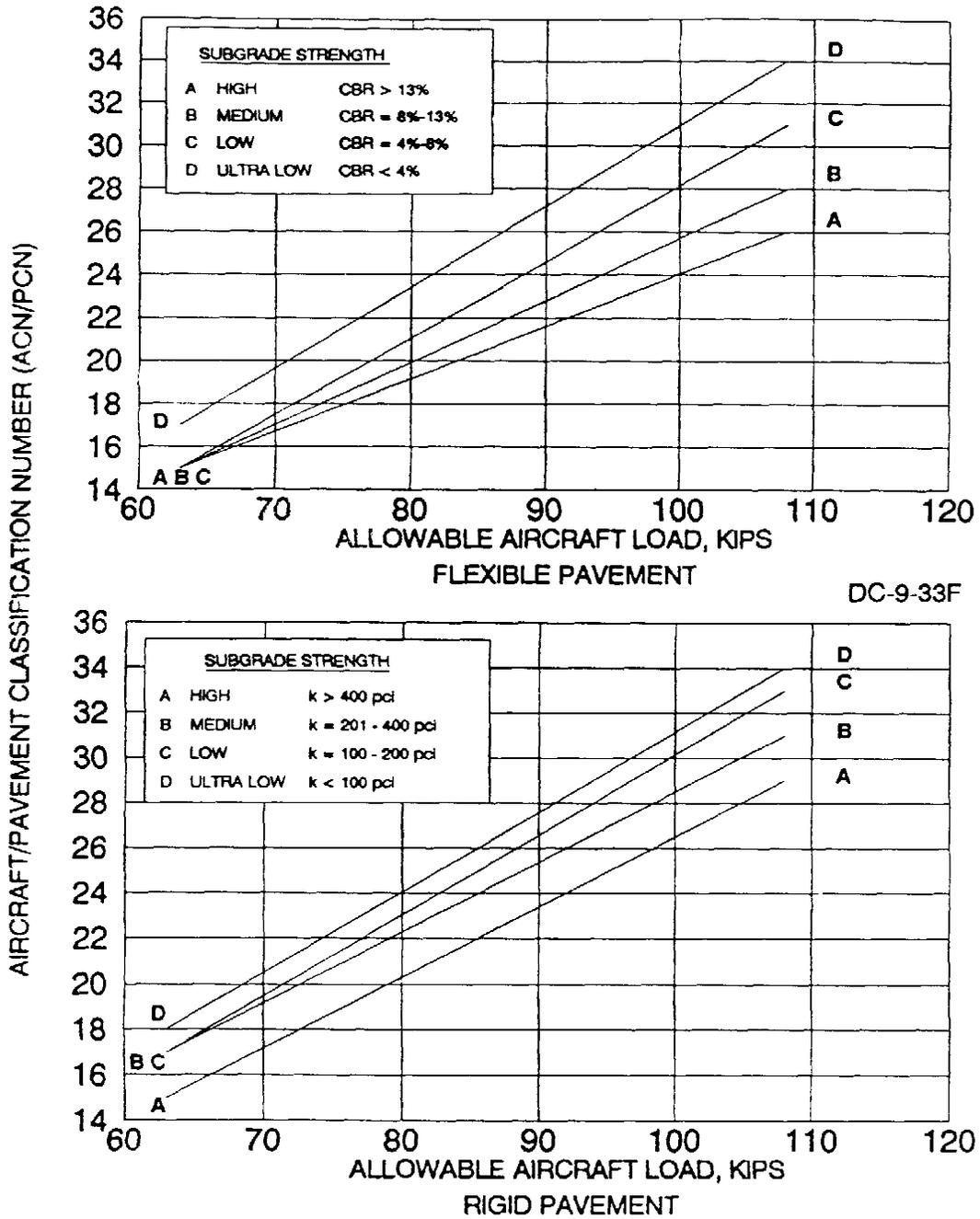


Figure A-416. McDonnell Douglas DC-9-33F, ACN/PCN Curves

ETL 1110-3-394
27 Sep 91

Aircraft Manufacturer McDonnell Douglas

Aircraft Engine Manufacturer Pratt and Whitney (JT8D-15)

No. of Engines 2 Engine Rating 15,500 lb

Min. T/O Wt. 68.0 k-lb * Min. T/O Dist. @ Min. T/O Wt. 2,100 ft

* Min. T/O Dist. @ Min. T/O Wt. With Abort Dist. †

Max. T/O Wt. Peace-Time 114.0 k-lb Max. T/O Wt. War-Time 114.0 k-lb

* Min. T/O Dist. @ Max. T/O Wt. War-Time 6,200 ft

* Min. T/O Dist. @ Max. T/O Wt. War-Time With Abort Dist. †

Min. Ldg. Wt. 95.2 k-lb Max. Ldg. Wt. 102.0 k-lb

* Min. Ldg. Dist. @ Min. Ldg. Wt. 4,500 ft

* Min. Ldg. Dist. @ Max. Ldg. Wt. 4,800 ft

* These distances are at 59°F, at sea level, with zero runway gradient, and on a clean dry runway surface.

Weight	ACN							
	Rigid Pavement Subgrades				Flexible Pavement Subgrades			
	High A	Medium B	Low C	Ultra Low D	High A	Medium B	Low C	Very Low D
95	25	27	28	29	22	24	27	30
102	27	29	30	31	24	25	29	32
114	32	34	35	37	28	30	33	37

Figure A-417. McDonnell Douglas DC-9-41

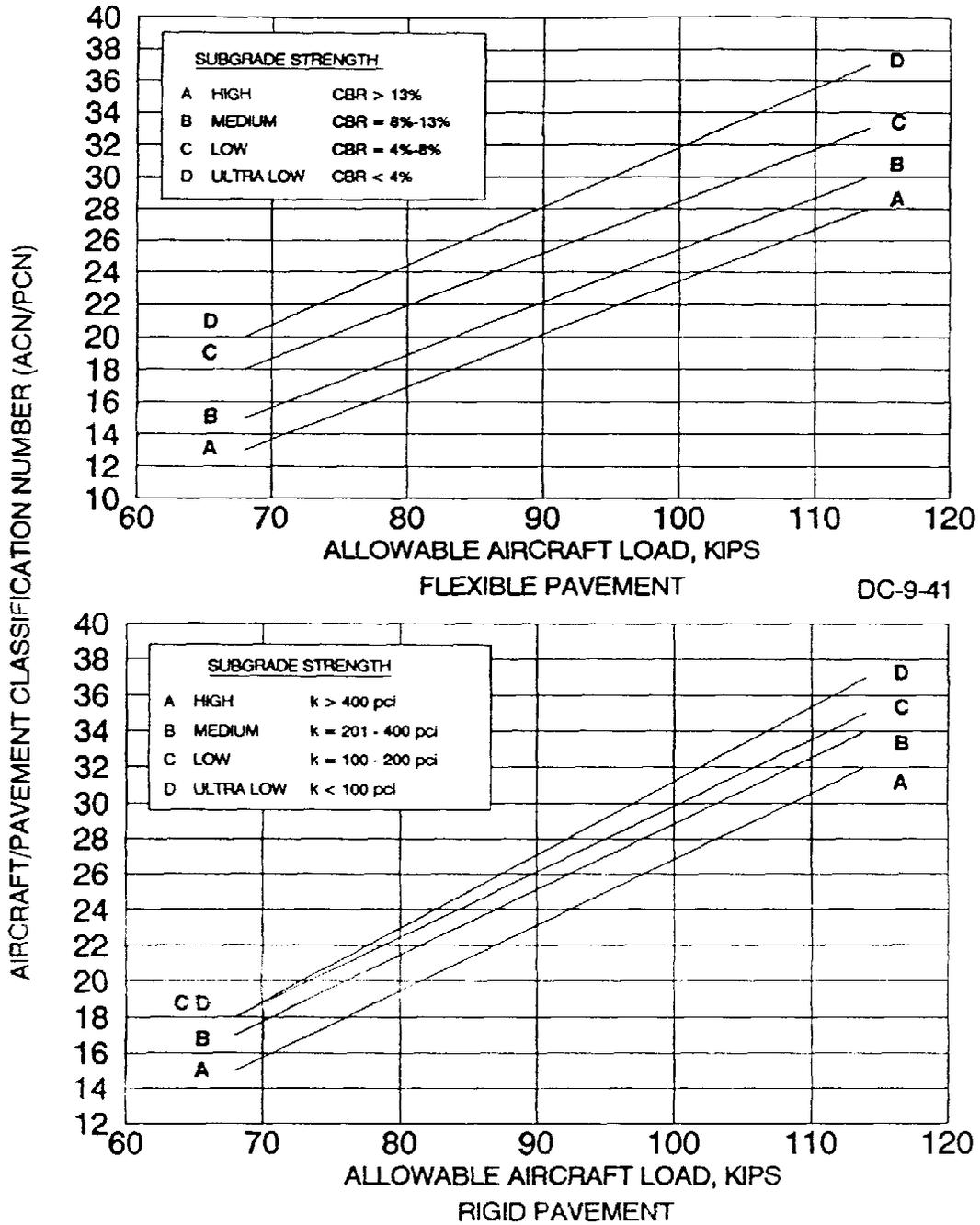


Figure A-418. McDonnell Douglas DC-9-41, ACN/PCN Curves

Aircraft Manufacturer McDonnell Douglas

Aircraft Engine Manufacturer Pratt and Whitney (JT8D-17)

No. of Engines 2 Engine Rating 15,500 lb

Min. T/O Wt. 71.3 k-lb * Min. T/O Dist. @ Min. T/O Wt. 2,400 ft

* Min. T/O Dist. @ Min. T/O Wt. With Abort Dist. †

Max. T/O Wt. Peace-Time 121.0 k-lb Max. T/O Wt. War-Time 121.0 k-lb

* Min. T/O Dist. @ Max. T/O Wt. War-Time 7,500 ft

* Min. T/O Dist. @ Max. T/O Wt. War-Time With Abort Dist. †

Min. Ldg. Wt. 100.7 k-lb Max. Ldg. Wt. 110.0 k-lb

* Min. Ldg. Dist. @ Min. Ldg. Wt. 4,400 ft

* Min. Ldg. Dist. @ Max. Ldg. Wt. 4,700 ft

* These distances are at 59°F, at sea level, with zero runway gradient, and on a clean dry runway surface.

Weight	Rigid Pavement Subgrades				Flexible Pavement Subgrades			
	High	Medium	Low	Ultra	High	Medium	Low	Very
	A	B	C	Low D	A	B	C	Low D
101	27	29	30	31	24	25	29	32
110	30	32	33	34	27	28	32	35
121	35	37	39	40	31	32	36	39

Figure A-419. McDonnell Douglas DC-9-51

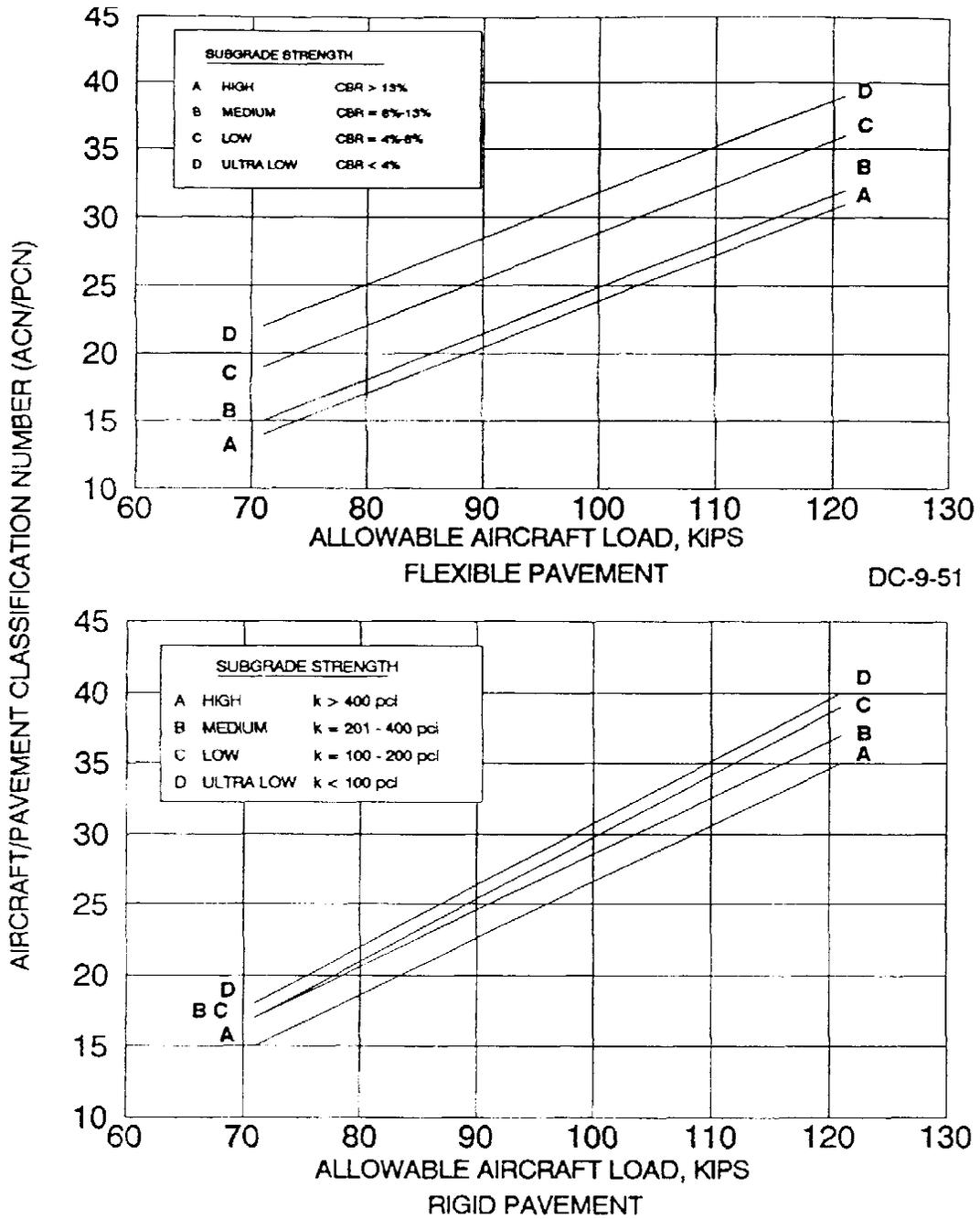


Figure A-420. McDonnell Douglas DC-9-51, ACN/PCN Curves

Aircraft Manufacturer McDonnell Douglas

Aircraft Engine Manufacturer Pratt and Whitney (JT8D-209)

No. of Engines 2 Engine Rating 18,500 lb

Min. T/O Wt. 88.4 k-lb * Min. T/O Dist. @ Min. T/O Wt. †

* Min. T/O Dist. @ Min. T/O Wt. With Abort Dist. †

Max. T/O Wt. Peace-Time 140.0 k-lb Max. T/O Wt. War-Time 140.0 k-lb

* Min. T/O Dist. @ Max. T/O Wt. War-Time 7,200 ft

* Min. T/O Dist. @ Max. T/O Wt. War-Time With Abort Dist. †

Min. Ldg. Wt. 121.5 k-lb Max. Ldg. Wt. 128.0 k-lb

* Min. Ldg. Dist. @ Min. Ldg. Wt. 4,500 ft

* Min. Ldg. Dist. @ Max. Ldg. Wt. 4,700 ft

* These distances are at 59°F, at sea level, with zero runway gradient, and on a clean dry runway surface.

ACN

Weight	Rigid Pavement Subgrades				Flexible Pavement Subgrades			
	High A	Medium B	Low C	Ultra Low D	High A	Medium B	Low C	Very Low D
122	34	36	38	39	30	32	36	40
128	36	38	40	42	32	34	38	42
140	40	43	45	47	36	38	43	46

Figure A-421. McDonnell Douglas MD-81